Table 4.1 Cancer of the Female Breast (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints, All Ages by Race/Ethnicity

	JP Tre	end 1	JP Tre	end 2	JP Tre	end 3	JP Tre	nd 4	JP Tre	end 5	JP Tre	end 6	AAI	C _q
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
SEER 9 Delay-Adjus	ted Incide	nce ^a , 197	75-2008											
All Races	1975-80	-0.5	1980-87	4.0*	1987-94	-0.1	1994-99	1.7*	1999-05	-2.1*	2005-08	0.9	-1.1*	0.1
White	1975-80	-0.5	1980-87	4.1*	1987-94	-0.2	1994-99	2.0*	1999-04	-2.4*	2004-08	-0.2	-1.4*	-0.2
Black	1975-92	2.2*	1992-08	0.1									0.1	0.1
SEER 13 Delay-Adju	sted Incide	ence ^b , 19	992-2008											
All Races	1992-99	1.3*	1999-05	-2.0*	2005-08	1.1							-1.0	0.3
White	1992-99	1.5*	1999-04	-2.4*	2004-08	0.0							-1.4*	0.0
Black	1992-08	0.1											0.1	0.1
SEER 9 Observed In	cidenceª, 1	.975-2008	3											
All Races	1975-80	-0.5	1980-87	4.0*	1987-94	-0.2	1994-99	1.7*	1999-05	-2.1*	2005-08	0.7	-1.2*	0.0
White	1975-80	-0.5	1980-87	4.1*	1987-94	-0.2	1994-99	2.0*	1999-04	-2.4*	2004-08	-0.4	-1.5*	-0.4
Black	1975-92	2.2*	1992-08	0.0									0.0	0.0
SEER 13 Observed I	ncidence ^b ,	1992-200	<u>)8</u>											
All Races	1992-99	1.3*	1999-05	-2.1*	2005-08	0.9							-1.1*	0.1
White	1992-99	1.5*	1999-04	-2.5*	2004-08	-0.2							-1.5*	-0.2
White NH ^{ef}	1992-99	1.7*	1999-04	-2.3*	2004-08	-0.1							-1.3*	-0.1
Black	1992-08	0.0											0.0	0.0
Black NH ^{ef}	1992-08	0.0											0.0	0.0
API ^e	1992-94	-4.8	1994-97	6.8	1997-06	-0.4	2006-08	5.0					0.7	2.2
AI/AN ^{eg}	1992-08	-0.3											-0.3	-0.3
Hispanic ^f	1992-08	-0.3											-0.3	-0.3

U.S. Cancer Mortality^c, 1975-2008

All Races

White

Black

U.S. Cancer Mortality^c, 1992-2008

All Races

White

White NH^{ef}

Black

Black NH^{ef}

APT^e

AI/AN^{eg}

Hispanic^f

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

- Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
 Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
- Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
- API Asian/Pacific Islander, AI/AN American Indian/Alaska Native, NH Non-Hispanic
- Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.
- Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- The APC/AAPC is significantly different from zero (p<.05).
- Joinpoint regression line analysis could not be performed on data series.

Table 4.2 Cancer of the Female Breast (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints, Ages <50 by Race/Ethnicity

	JP Tre	end 1	JP Tre	end 2	JP Tre	end 3	JP Tre	end 4	JP Tre	end 5	JP Tr	end 6	AAF	$^{\circ}C^{\mathrm{d}}$
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
SEER 9 Delay-Adjus	sted Incide	nce ^a , 197	75-2008											
All Races	1975-80	-1.5	1980-85	3.2*	1985-08	0.0							0.0	0.0
White	1975-80	-1.1	1980-86	2.6*	1986-08	-0.1							-0.1	-0.1
Black	1975-91	1.3*	1991-08	-0.4									-0.4	-0.4
SEER 13 Delay-Adju	sted Incid	ence ^b , 19	992-2008											
All Races	1992-08	0.1											0.1	0.1
White	1992-94	-1.0	1994-98	1.3	1998-02	-1.1	2002-08	0.5					0.0	0.5
Black	1992-01	-1.2*	2001-08	1.0									0.5	1.0
SEER 9 Observed Ir	ncidenceª, 1	L975-2008	3											
All Races	1975-80	-1.5	1980-85	3.3*	1985-08	0.0							0.0	0.0
White	1975-80	-1.1	1980-86	2.6*	1986-08	-0.1							-0.1	-0.1
Black	1975-91	1.3*	1991-08	-0.5*									-0.5*	-0.5*
SEER 13 Observed I	Incidenceb,	1992-200	08											
All Races	1992-08	0.1											0.1	0.1
White	1992-94	-1.0	1994-98	1.3	1998-02	-1.1	2002-08	0.3					-0.1	0.3
White NH ^{ef}	1992-08	0.3*											0.3*	0.3*
Black	1992-08	-0.4											-0.4	-0.4
Black NH ^{ef}	1992-01	-1.4*	2001-08	1.1									0.5	1.1
API ^e	1992-08	1.3*											1.3*	1.3*
AI/AN ^{eg}	1992-08	0.8											0.8	0.8
Hispanic ^f	1992-94	-5.8	1994-00	2.3*	2000-03	-4.0	2003-08	1.7*					-0.2	1.7*

U.S. Cancer Mortality^c, 1975-2008

All Races

White

Black

U.S. Cancer Mortality^c, 1992-2008

All Races

White

White NH^{ef}

Black

Black NH^{ef}

APT^e

AI/AN^{eg}

Hispanic^f

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

- Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
 Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
- d The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
- API Asian/Pacific Islander, AI/AN American Indian/Alaska Native, NH Non-Hispanic
 - Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.
- Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- * The APC/AAPC is significantly different from zero (p<.05).</p>
- Joinpoint regression line analysis could not be performed on data series.

Table 4.3 Cancer of the Female Breast (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints, Ages 50+ by Race/Ethnicity

	JP Tre	nd 1	JP Tre	end 2	JP Tre	end 3	JP Tre	nd 4	JP Tre	end 5	JP Tre	end 6	AAP	Cq
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
SEER 9 Delay-Adjus	sted Incider	nce ^a , 197	75-2008											
All Races	1975-82	0.9	1982-87	5.4*	1987-93	-0.3	1993-99	1.9*	1999-05	-2.6*	2005-08	0.7	-1.5*	-0.1
White	1975-82	0.9*	1982-87	5.5*	1987-93	-0.3	1993-00	1.7*	2000-04	-3.8*	2004-08	-0.2	-1.6*	-0.2
Black	1975-92	2.6*	1992-08	0.2									0.2	0.2
SEER 13 Delay-Adju	sted Incide	ence ^b , 19	992-2008											
All Races	1992-99	1.6*	1999-05	-2.6*	2005-08	1.0							-1.4*	0.1
White	1992-00	1.5*	2000-04	-3.8*	2004-08	0.0							-1.5*	0.0
Black	1992-08	0.2											0.2	0.2
SEER 9 Observed In	ncidenceª, 1	975-2008	3											
All Races	1975-82	0.9	1982-87	5.3*	1987-93	-0.3	1993-99	1.9*	1999-05	-2.7*	2005-08	0.5	-1.6*	-0.3
White	1975-82	0.9*	1982-87	5.5*	1987-93	-0.3	1993-00	1.7*	2000-04	-3.8*	2004-08	-0.4	-1.7*	-0.4
Black	1975-92	2.6*	1992-08	0.1									0.1	0.1
SEER 13 Observed I	ncidence ^b ,	1992-200	18											
All Races	1992-99	1.7*	1999-04	-2.9*	2004-08	0.0							-1.6*	0.0
White	1992-00	1.4*	2000-04	-3.9*	2004-08	-0.2							-1.6*	-0.2
White NH ^{ef}	1992-01	1.3*	2001-04	-5.3	2004-08	0.3							-1.4	0.3
Black	1992-08	0.1											0.1	0.1
Black NH ^{ef}	1992-08	0.1											0.1	0.1
API ^e	1992-94	-5.5	1994-97	7.9	1997-05	-1.0	2005-08	3.2					0.3	2.1
AI/AN ^{eg}	1992-08	-0.7											-0.7	-0.7
Hispanic ^f	1992-08	-0.4											-0.4	-0.4

U.S. Cancer Mortality^c, 1975-2008

All Races

White

Black

U.S. Cancer Mortality^c, 1992-2008

All Races

White

White NH^{ef}

Black

Black NH^{ef}

APT^e

AI/AN^{eg}

Hispanic^f

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

- Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
- Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

 The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
- API Asian/Pacific Islander, AI/AN American Indian/Alaska Native, NH Non-Hispanic
- Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

 The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.
- 9 Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- * The APC/AAPC is significantly different from zero (p<.05).</p>
- Joinpoint regression line analysis could not be performed on data series.

Table 4.4 Cancer of the Female Breast (In Situ)

Trends in SEER Incidence ab Using the Joinpoint Regression Program, 1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints, All Ages by Race/Ethnicity

	JP Tre	end 1	JP Tre	end 2	JP Tre	end 3	JP Tre	end 4	JP Tre	end 5	JP Tre	nd 6	AAF	C _q
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
SEER 9 Delay-Adjus	ted Incide	nce ^a , 197	75-2008											
All Races	1975-81	-3.0	1981-87	24.9*	1987-95	4.2*	1995-98	11.8*	1998-06	0.2	2006-08	5.6	1.4	2.9
White	1975-81	-2.9	1981-87	25.4*	1987-95	3.9*	1995-98	11.4*	1998-08	0.7			0.7	0.7
Black	1975-83	6.2*	1983-88	23.3*	1988-93	3.5	1993-98	11.4*	1998-03	-0.5	2003-08	4.3*	2.1	4.3*
SEER 13 Delay-Adju	sted Incid	ence ^b , 19	992-2008											
All Races	1992-94	0.3	1994-98	10.7*	1998-06	0.3	2006-08	4.9					1.3*	2.6*
White	1992-94	-0.6	1994-98	10.9*	1998-06	0.1	2006-08	4.0					0.9	2.0
Black	1992-98	8.6*	1998-08	2.0*									2.0*	2.0*
SEER 9 Observed In	cidenceª, 1	L975-2008	3											
All Races	1975-81	-3.1	1981-87	25.2*	1987-94	3.8*	1994-98	9.8*	1998-08	0.9*			0.9*	0.9*
White	1975-81	-2.9	1981-87	25.4*	1987-95	3.9*	1995-98	11.4*	1998-08	0.6			0.6	0.6
Black	1975-83	6.2*	1983-88	23.3*	1988-93	3.5	1993-98	11.4*	1998-03	-0.6	2003-08	4.1*	2.0	4.1*
SEER 13 Observed I	ncidence ^b ,	1992-200	18											
All Races	1992-94	0.3	1994-98	10.7*	1998-06	0.3	2006-08	4.6					1.2*	2.4*
White	1992-94	-0.4	1994-98	10.4*	1998-08	0.5							0.5	0.5
White NH ^{ef}	1992-94	0.8	1994-99	9.2*	1999-06	-0.5	2006-08	5.0					0.7	2.2
Black	1992-98	8.6*	1998-08	2.0*									2.0*	2.0*
Black NH ^{ef}	1992-97	9.8*	1997-08	2.3*									2.3*	2.3*
API ^e	1992-02	7.9*	2002-05	-4.6	2005-08	8.8*							3.8	5.3*
AI/AN ^{eg}	1992-08	1.6											1.6	1.6
Hispanic ^f	1992-98	7.4*	1998-08	2.1*									2.1*	2.1*

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.

Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

The APC/AAPC is significantly different from zero (p<.05).

Joinpoint regression line analysis could not be performed on data series.

Table 4.5
Cancer of the Breast (Invasive)

Age-adjusted SEER Incidence Rates by Year, Race and Sex

	All Races				Whites			Blacks Males Females			
	Total	Males	Females	Total	Males	Females	Total	Males	Females		
Year of Diagnosis:											
1975	58.05	0.85	105.06	59.44	0.88	107.32	52.11	-	93.59		
1976	56.43	1.10	101.90	58.13	1.12	104.82	48.03	-	85.34		
1977	55.98	0.96	100.82	57.47	0.88	103.44	49.67	_	87.03		
1978	55.86	0.90	100.64	57.57	0.89	103.66	48.27	-	86.09		
1979	56.85	0.99	102.13	58.33	0.94	104.79	49.86	-	86.85		
1980	56.91	0.90	102.26	58.56	0.95	105.15	50.55	-	89.40		
1981	59.32	1.00	106.33	61.24	0.93	109.90	54.41	-	94.35		
1982	59.23	0.98	106.48	61.08	0.94	109.98	54.02	-	93.73		
1983	61.91	1.03	111.16	63.73	1.12	114.51	58.95	-	103.58		
1984	64.47	0.93	115.98	66.59	0.94	119.92	58.42	-	102.47		
1985	69.10	0.95	124.23	71.02	0.97	127.87	64.11	-	111.65		
1986	70.44	0.94	126.81	72.29	0.95	130.39	66.22	_	114.97		
1987	74.78	0.96	134.48	77.83	0.98	140.30	63.03	_	109.37		
1988	73.05	1.23	131.25	75.62	1.17	136.32	68.99	2.76	118.64		
1989	70.73	1.13	127.18	73.38	1.08	132.37	60.53	_	104.94		
1990	73.12	1.13	131.74	75.32	1.15	136.20	68.35	_	118.26		
1991	74.08	1.12	133.82	76.62	1.17	138.87	67.47	_	117.52		
1992	73.00	1.04	131.98	74.75	1.02	135.77	71.45	_	123.76		
1993	71.31	1.08	129.16	73.19	1.04	133.20	68.82	_	119.44		
1994	72.07	1.14	130.93	74.28	1.09	135.68	70.63	_	122.50		
1995	72.79	0.97	132.52	75.10	0.93	137.56	71.58	_	123.66		
1996	73.29	1.32	133.58	75.33	1.33	138.11	71.27	_	123.60		
1997	75.53	1.12	137.87	77.62	1.09	142.67	72.31	_	125.01		
1998	77.24	1.07	141.24	79.65	1.12	146.62	70.91	_	123.56		
1999	77.08	0.99	141.27	79.51	0.99	146.91	72.42	_	125.31		
2000	74.26	1.17	136.29	77.20	1.15	142.89	67.74	2.86	116.66		
2001	75.42	1.22	138.49	78.05	1.22	144.63	66.28	1.66	114.69		
2002	73.46	1.17	135.41	75.70	1.13	140.89	70.61	2.11	122.21		
2003	68.61	1.32	126.52	70.50	1.34	131.27	70.49	1.73	122.17		
2004	68.97	1.22	127.48	70.37	1.24	131.36	70.29	1.62	121.91		
2005	67.91	1.15	125.82	69.61	1.26	130.31	67.17	_	116.64		
2006	67.62	1.22	125.40	68.82	1.27	129.00	70.48	1.33	122.55		
2007	68.35	1.15	127.04	69.09	1.18	129.93	70.44	1.70	121.93		
2008	68.29	1.22	127.25	68.70	1.22	129.48	72.39	1.71	125.64		
1975-2008	68.73	1.09	125.10	70.52	1.09	128.95	65.66	1.61	114.12		

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.7 Cancer of the Female Breast (Invasive)

Delay-adjusted SEER Incidence Rates by Year, Race and Age

Year of Diagnosis: 1975	93.59 85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53 111.75 115.09	<pre><50 42.99 37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69</pre>	50+ 226.09 209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58
1975 105.06 40.62 273.82 107.32 40.68 281.82 1976 101.90 40.05 263.86 104.82 40.88 272.26 1977 100.82 39.12 262.39 103.44 39.43 271.07 1978 100.64 38.85 262.45 103.66 39.32 272.14 1979 102.13 38.03 269.95 104.79 38.65 277.97 1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 <t< th=""><th>85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53</th><th>37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69</th><th>209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58</th></t<>	85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53	37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69	209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58
1975 105.06 40.62 273.82 107.32 40.68 281.82 1976 101.90 40.05 263.86 104.82 40.88 272.26 1977 100.82 39.12 262.39 103.44 39.43 271.07 1978 100.64 38.85 262.45 103.66 39.32 272.14 1979 102.13 38.03 269.95 104.79 38.65 277.97 1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 <t< td=""><td>85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53</td><td>37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69</td><td>209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58</td></t<>	85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53	37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69	209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58
1976 101.90 40.05 263.86 104.82 40.88 272.26 1977 100.82 39.12 262.39 103.44 39.43 271.07 1978 100.64 38.85 262.45 103.66 39.32 272.14 1979 102.13 38.03 269.95 104.79 38.65 277.97 1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 <t< td=""><td>85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53</td><td>37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69</td><td>209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58</td></t<>	85.34 87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53	37.82 37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69	209.77 216.41 206.14 215.34 224.82 239.64 239.18 266.58
1977 100.82 39.12 262.39 103.44 39.43 271.07 1978 100.64 38.85 262.45 103.66 39.32 272.14 1979 102.13 38.03 269.95 104.79 38.65 277.97 1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 <t< td=""><td>87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53 111.75</td><td>37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69</td><td>216.41 206.14 215.34 224.82 239.64 239.18 266.58</td></t<>	87.03 86.09 86.85 89.40 94.35 93.75 103.62 102.53 111.75	37.62 40.24 37.78 37.69 38.86 38.21 41.39 44.69	216.41 206.14 215.34 224.82 239.64 239.18 266.58
1978 100.64 38.85 262.45 103.66 39.32 272.14 1979 102.13 38.03 269.95 104.79 38.65 277.97 1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 <t< td=""><td>86.09 86.85 89.40 94.35 93.75 103.62 102.53 111.75</td><td>40.24 37.78 37.69 38.86 38.21 41.39 44.69</td><td>206.14 215.34 224.82 239.64 239.18 266.58</td></t<>	86.09 86.85 89.40 94.35 93.75 103.62 102.53 111.75	40.24 37.78 37.69 38.86 38.21 41.39 44.69	206.14 215.34 224.82 239.64 239.18 266.58
1979 102.13 38.03 269.95 104.79 38.65 277.97 1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 <t< td=""><td>86.85 89.40 94.35 93.75 103.62 102.53 111.75</td><td>37.78 37.69 38.86 38.21 41.39 44.69</td><td>215.34 224.82 239.64 239.18 266.58</td></t<>	86.85 89.40 94.35 93.75 103.62 102.53 111.75	37.78 37.69 38.86 38.21 41.39 44.69	215.34 224.82 239.64 239.18 266.58
1980 102.26 37.82 271.00 105.15 38.31 280.16 1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 <t< td=""><td>89.40 94.35 93.75 103.62 102.53</td><td>37.69 38.86 38.21 41.39 44.69</td><td>224.82 239.64 239.18 266.58</td></t<>	89.40 94.35 93.75 103.62 102.53	37.69 38.86 38.21 41.39 44.69	224.82 239.64 239.18 266.58
1981 106.33 39.24 282.02 109.90 40.16 292.53 1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 <t< td=""><td>94.35 93.75 103.62 102.53 111.75</td><td>38.86 38.21 41.39 44.69</td><td>239.64 239.18 266.58</td></t<>	94.35 93.75 103.62 102.53 111.75	38.86 38.21 41.39 44.69	239.64 239.18 266.58
1982 106.48 40.59 279.03 109.99 41.33 289.77 1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 <t< td=""><td>93.75 103.62 102.53 111.75</td><td>38.21 41.39 44.69</td><td>239.18 266.58</td></t<>	93.75 103.62 102.53 111.75	38.21 41.39 44.69	239.18 266.58
1983 111.18 40.27 296.86 114.53 40.91 307.32 1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 <t< td=""><td>103.62 102.53 111.75</td><td>41.39 44.69</td><td>266.58</td></t<>	103.62 102.53 111.75	41.39 44.69	266.58
1984 116.00 42.36 308.83 119.96 43.13 321.14 1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 <t< td=""><td>102.53 111.75</td><td>44.69</td><td></td></t<>	102.53 111.75	44.69	
1985 124.26 44.35 333.50 127.92 44.51 346.32 1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 <t< td=""><td>111.75</td><td></td><td>252 00</td></t<>	111.75		252 00
1986 126.85 44.45 342.61 130.45 45.24 353.60 1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 <t< td=""><td></td><td>45 40</td><td>253.99</td></t<>		45 40	253.99
1987 134.53 45.52 367.63 140.38 46.55 386.08 1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17 <td>115.09</td> <td>45.49</td> <td>285.26</td>	115.09	45.49	285.26
1988 131.30 44.02 359.86 136.40 45.09 375.51 1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	110.00	45.69	296.81
1989 127.26 43.42 346.81 132.50 44.57 362.74 1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	109.51	43.19	283.16
1990 131.84 45.58 357.72 136.35 45.38 374.55 1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	118.80	43.01	317.26
1991 133.93 47.27 360.87 139.03 47.28 379.30 1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	105.14	42.09	270.24
1992 132.10 43.48 364.18 135.95 43.71 377.50 1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	118.53	48.94	300.78
1993 129.30 42.88 355.59 133.40 43.37 369.15 1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	117.82	51.13	292.44
1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	124.11	47.11	325.74
1994 131.08 42.42 363.24 135.92 42.83 379.69 1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	119.82	45.46	314.54
1995 132.69 43.19 367.06 137.83 43.82 384.03 1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	122.94	47.53	320.41
1996 133.78 43.57 370.00 138.42 44.07 385.49 1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	124.15	45.55	330.00
1997 138.10 43.57 385.64 143.03 44.24 401.75 1998 141.49 45.46 392.96 147.01 45.75 412.17	124.15	44.31	333.24
1998 141.49 45.46 392.96 147.01 45.75 412.17	125.63	44.34	338.51
	124.22	46.67	327.30
1999 141.60 43.82 397.64 147.41 45.16 415.15	126.13	43.80	341.73
2000 136.65 43.51 380.53 143.44 44.08 403.64	117.52	44.69	308.24
2001 138.90 43.91 387.64 145.27 44.82 408.28	115.64	39.69	314.51
2002 135.87 42.82 379.54 141.60 43.52 398.44	123.35	41.10	338.73
2003 127.02 43.30 346.24 132.04 44.21 362.02	123.46	43.17	333.70
2004 128.06 44.85 345.97 132.25 44.80 361.23	123.40	46.76	323.70
2004 128.06 44.65 345.97 132.25 44.60 361.25 2005 126.48 43.91 342.71 131.32 44.28 359.24	118.24	45.76	309.98
	124.46	45.01	
			334.13
2007 127.96 45.03 345.10 131.30 45.13 356.95	124.11 129.07	44.50	332.57
2008 128.78 45.49 346.87 131.68 45.40 357.62		44.59	350.30

Additional information on the model used to delay-adjust SEER Incidence rates can be found at

⁽http://surveillance.cancer.gov/delay/).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 4.8 Cancer of the Female Breast (In Situ)

Delay-adjusted SEER Incidence Rates by Year, Race and Age

	All Races, Females			W	hite Femal	es	B	Black Females			
	All	<50	50+	All	<50	50+	All	<50	50+		
Year of Diagnosis:											
1975	5.83	3.78	11.19	5.89	3.81	11.32	3.94	_	8.31		
1976	5.28	2.72	11.98	5.36	2.89	11.83	3.28		9.40		
1977	4.25	2.72	8.67	4.32	2.59	8.85	3.03		J.40		
1978	4.40	2.36	9.74	4.55	2.50	9.91	3.29	_	_		
1979	4.58	2.81	9.22	4.65	2.85	9.38	4.78	_	9.55		
1980	4.83	2.98	9.67	5.06	3.11	10.17	3.56	_	9.55 -		
1981	4.96	2.64	11.05	4.93	2.52	11.26	4.08	_	8.72		
1982	5.30	2.73	12.03	5.34	2.71	12.24	5.55	2.73	12.95		
1983	6.09	3.03	14.09	6.22	3.03	14.57	5.41	- -	13.20		
1984	8.63			9.18			6.35				
1985	11.53	4.79 5.93	18.66 26.20		5.19 6.27	19.61 27.39	8.21	2.37 3.49	16.78 20.58		
				12.11							
1986	13.63	6.78	31.56	14.28	7.23	32.74	9.32	5.12	20.33		
1987	17.38	7.83	42.40	18.22	8.24	44.36	12.31	5.64	29.75		
1988	17.58	8.20	42.13	18.15	8.54	43.32	16.00	7.38	38.56		
1989	16.54	7.02	41.46	17.11	7.28	42.88	14.55	5.52	38.18		
1990	19.15	8.40	47.29	19.94	8.76	49.21	15.08	5.55	40.05		
1991	19.78	8.77	48.62	20.48	8.88	50.87	15.43	7.30	36.71		
1992	21.42	9.00	53.96	22.19	9.26	56.06	19.12	6.84	51.29		
1993	20.71	8.36	53.05	21.36	8.79	54.27	16.75	6.07	44.72		
1994	22.31	8.75	57.82	22.92	9.05	59.22	20.18	7.49	53.40		
1995	24.72	9.64	64.20	25.10	9.99	64.65	22.76	6.51	65.30		
1996	25.39	9.82	66.14	25.95	9.79	68.25	22.74	7.79	61.87		
1997	28.34	11.06	73.58	29.00	11.25	75.48	28.24	11.42	72.28		
1998	32.80	12.00	87.27	33.81	12.36	89.98	30.47	10.79	82.01		
1999	32.76	11.97	87.20	33.21	12.22	88.15	29.72	10.42	80.27		
2000	32.83	11.77	87.99	33.92	12.53	89.93	29.67	8.06	86.26		
2001	33.72	11.58	91.69	34.32	12.06	92.61	31.74	9.01	91.28		
2002	34.07	11.90	92.13	34.64	12.32	93.08	28.59	8.66	80.78		
2003	32.50	12.00	86.17	33.51	12.52	88.45	29.85	9.37	83.49		
2004	33.18	12.74	86.71	33.98	12.97	89.01	30.38	9.93	83.95		
2005	32.68	12.42	85.73	33.62	12.93	87.80	31.66	9.96	88.48		
2006	33.29	13.78	84.37	33.59	14.27	84.18	35.67	11.50	98.97		
2007	35.41	14.34	90.60	35.45	14.55	90.19	33.55	10.93	92.79		
2007	37.03	14.16	96.93	37.08	14.55	96.03	36.66	11.65	102.14		
2008	37.03	14.16	96.93	37.08	14.57	96.03	36.66	11.65	102.		

Additional information on the model used to delay-adjust SEER Incidence rates can be found at

⁽http://surveillance.cancer.gov/delay/).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 4.9
Cancer of the Female Breast (Invasive)

Age-adjusted SEER Incidence Rates by Year, Race and Age

	All Races, Females			W	hite Femal	.es	B	lack Femal	nales 50+			
	All	<50	50+	All	<50	50+	All	<50	50+			
Year of Diagnosis: 1975	105.06	40.62	273.82	107.32	40.68	281.82	02 50	42.99	226.09			
1976		40.62					93.59	37.82				
	101.90		263.86	104.82	40.88	272.26	85.34		209.77			
1977	100.82	39.12	262.39	103.44	39.43	271.07	87.03	37.62	216.41			
1978	100.64	38.85	262.45	103.66	39.32	272.14	86.09	40.24	206.14			
1979	102.13	38.03	269.95	104.79	38.65	277.97	86.85	37.78	215.34			
1980	102.26	37.82	271.00	105.15	38.31	280.16	89.40	37.69	224.82			
1981	106.33	39.24	282.02	109.90	40.16	292.53	94.35	38.86	239.64			
1982	106.48	40.59	279.01	109.98	41.33	289.75	93.73	38.20	239.13			
1983	111.16	40.26	296.82	114.51	40.90	307.26	103.58	41.37	266.47			
1984	115.98	42.35	308.77	119.92	43.12	321.04	102.47	44.66	253.83			
1985	124.23	44.34	333.41	127.87	44.49	346.19	111.65	45.45	285.02			
1986	126.81	44.44	342.50	130.39	45.21	353.42	114.97	45.64	296.50			
1987	134.48	45.50	367.48	140.30	46.53	385.85	109.37	43.13	282.80			
1988	131.25	44.00	359.71	136.32	45.06	375.28	118.64	42.95	316.83			
1989	127.18	43.39	346.60	132.37	44.53	362.41	104.94	42.01	269.72			
1990	131.74	45.54	357.47	136.20	45.33	374.14	118.26	48.83	300.10			
1991	133.82	47.23	360.58	138.87	47.22	378.85	117.52	51.00	291.72			
1992	131.98	43.44	363.84	135.77	43.65	376.99	123.76	46.98	324.83			
1993	129.16	42.83	355.23	133.20	43.31	368.58	119.44	45.31	313.55			
1994	130.93	42.37	362.82	135.68	42.75	379.03	122.50	47.36	319.27			
1995	132.52	43.13	366.58	137.56	43.73	383.27	123.66	45.36	328.68			
1996	133.58	43.51	369.45	138.11	43.97	384.63	123.60	44.11	331.76			
1997	137.87	43.49	384.99	142.67	44.12	400.73	125.01	44.12	336.82			
1998	141.24	45.38	392.26	146.62	45.63	411.06	123.56	46.42	325.57			
1999	141.27	43.72	396.73	146.91	45.01	413.74	125.31	43.51	339.50			
2000	136.29	43.40	379.54	142.89	43.91	402.08	116.66	44.36	305.98			
2001	138.49	43.78	386.49	144.63	44.63	406.48	114.69	39.36	311.92			
2002	135.41	42.67	378.25	140.89	43.30	396.43	122.21	40.72	335.58			
2003	126.52	43.13	344.88	131.27	43.95	359.92	122.17	42.72	330.21			
2004	127.48	44.64	344.40	131.36	44.50	358.82	121.91	46.21	320.13			
2005	125.82	43.68	340.91	130.31	43.94	356.47	116.64	44.40	305.80			
2006	125.40	43.75	339.21	129.00	44.35	350.47	122.55	43.71	329.00			
2007	127.04	44.71	342.63	129.00	44.66	353.22	121.93	43.71	329.00			
2007	127.04	44.71	342.74	129.48	44.66	351.65	121.93	43.72	341.00			
1975-2008	125.10	43.15	339.70	128.95	43.60	352.44	114.12	43.69	298.57			

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.11
Cancer of the Female Breast (In Situ)

Age-adjusted SEER Incidence Rates by Year, Race and Age

	All Races, Females			W	hite Femal	es	B	Black Females			
	All	<50	50+	All	<50	50+	All	<50	50+		
Year of Diagnosis: 1975	5.83	3.78	11.19	5.89	3.81	11.32	3.94		8.31		
1976	5.28	2.72	11.19	5.36	2.89	11.83	3.28	_	9.40		
1977	4.25	2.72	8.67	4.32		8.85	3.26	_			
1978	4.40	2.36	9.74	4.32	2.59 2.50	9.91	3.03	_	_		
1978	4.40		9.74	4.55	2.85	9.38	4.78	_			
		2.81							9.55		
1980	4.83	2.98	9.67	5.06	3.11	10.17	3.56	_	-		
1981	4.96	2.64	11.05	4.93	2.52	11.26	4.08	-	8.72		
1982	5.30	2.73	12.03	5.34	2.71	12.24	5.55	2.73	12.94		
1983	6.09	3.03	14.09	6.22	3.03	14.57	5.41	_	13.20		
1984	8.62	4.79	18.66	9.18	5.19	19.61	6.35	2.37	16.77		
1985	11.53	5.93	26.19	12.10	6.27	27.38	8.21	3.49	20.57		
1986	13.63	6.78	31.56	14.27	7.23	32.73	9.32	5.12	20.32		
1987	17.38	7.83	42.39	18.21	8.24	44.33	12.30	5.64	29.73		
1988	17.57	8.20	42.12	18.14	8.54	43.29	15.99	7.38	38.53		
1989	16.53	7.02	41.44	17.10	7.27	42.84	14.53	5.52	38.14		
1990	19.14	8.40	47.27	19.92	8.76	49.16	15.06	5.54	40.01		
1991	19.78	8.77	48.61	20.46	8.87	50.82	15.41	7.29	36.66		
1992	21.42	8.99	53.95	22.16	9.25	55.99	19.09	6.83	51.21		
1993	20.70	8.36	53.04	21.33	8.78	54.21	16.73	6.06	44.66		
1994	22.31	8.75	57.80	22.89	9.04	59.14	20.14	7.47	53.32		
1995	24.71	9.64	64.18	25.06	9.98	64.56	22.72	6.50	65.19		
1996	25.37	9.82	66.12	25.91	9.78	68.15	22.69	7.78	61.76		
1997	28.32	11.05	73.54	28.95	11.24	75.35	28.18	11.40	72.13		
1998	32.78	11.99	87.21	33.76	12.34	89.84	30.42	10.77	81.85		
1999	32.74	11.96	87.14	33.13	12.20	87.95	29.64	10.39	80.05		
2000	32.80	11.76	87.91	33.84	12.50	89.71	29.59	8.04	86.01		
2001	33.69	11.57	91.61	34.23	12.03	92.36	31.64	8.98	90.98		
2002	34.02	11.88	92.00	34.53	12.28	92.81	28.49	8.63	80.49		
2003	32.44	11.98	86.02	33.39	12.48	88.16	29.73	9.33	83.16		
2004	33.12	12.71	86.54	33.86	12.92	88.68	30.25	9.88	83.58		
2005	32.59	12.39	85.51	33.48	12.87	87.43	31.50	9.91	88.04		
2006	33.19	13.74	84.12	33.43	14.21	83.79	35.47	11.43	98.42		
2007	35.28	14.29	90.27	35.26	14.47	89.71	33.34	10.87	92.20		
2008	36.62	14.00	95.85	36.66	14.40	94.95	36.19	11.50	100.83		
1975-2008	21.85	9.11	55.22	21.90	9.25	55.02	20.84	7.51	55.73		

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.12 Cancer of the Breast (Invasive)

SEER Incidence^a and U.S. Death^b Rates, Age-Adjusted and Age-Specific Rates, by Race and Sex

		All Races			Whites			Blacks	
	Total	Males	Females	Total	Males	Females	Total	Males	Females
SEER Incidence Age at Diagnosis Age-Adjusted Rates, 2004-2008 All ages Under 65 65 and over	67.0 42.3 237.5	1.2 0.4 6.5	124.0 82.9 408.6	68.2 42.4 246.2	1.2 0.4 6.7	127.3 84.1 426.3	68.8 44.6 236.3	1.6 0.8 7.5	119.9 82.1 381.1
All ages (IARC world std) $^{\rm c}$	47.6	0.8	89.9	48.2	0.7	92.1	49.0	1.1	87.1
Age-Specific Rates, 2004-2008 <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85+				- - 0.1 0.7 3.6 12.5 29.1 60.4 95.2 116.9 145.4 189.6 226.3 239.6 263.1 270.5 246.7		- - 0.2 1.5 7.6 25.8 59.7 122.4 190.8 231.5 284.2 364.2 423.7 434.1 454.2 437.8 354.2	- - - 1.1 5.9 16.6 34.0 65.2 96.0 119.4 152.7 190.5 214.1 225.0 241.0 248.3	- - - - - - 1.4 2.1 3.0 6.6 5.8 7.9 6.8	- - 2.3 11.5 31.8 64.8 123.6 180.0 220.2 276.3 336.1 372.1 379.8 390.0 378.8

U.S. Mortality Age at Death Age-Adjusted Rates, 2004-2008 All ages Under 65 65 and over All ages (IARC world std)^c Age-Specific Rates, 2004-2008 <1 1 - 45-9 10-14

25-29 30 - 3435-39 40 - 4445-49 50-54 55-59 60-64 65-69 70 - 7475-79 80 - 8485+

15-19 20 - 24

SEER 17 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

C Rates are per 100,000 and are age-adjusted to the IARC world standard population.

Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.13 Cancer of the Female Breast(In Situ)

SEER Incidence^a Rates, Age-Adjusted and Age-Specific Rates, by Race

	All Races, Females	White Females	Black Females
Age-Adjusted Rates, 2004-2008			
Age at Diagnosis:			
All ages	30.9	31.4	28.8
Under 65	23.2	23.6	19.9
65 and over	84.2	85.1	90.3
All ages (IARC world std) ^b	23.3	23.7	21.4
Age-Specific Rates, 2004-2008			
Age at Diagnosis:			
<1	=	-	=
1-4	=	-	=
5-9	=	-	=
10-14	-	_	-
15-19	-	_	-
20-24	0.1	_	-
25-29	0.7	0.7	1.0
30-34	2.7	2.6	2.3
35-39	10.8	10.7	10.6
40-44	37.9	38.4	29.2
45-49	60.5	62.3	43.3
50-54	71.2	72.4	58.1
55-59	77.4	78.1	75.8
60-64	90.1	91.2	90.1
65-69	99.4	100.5	101.2
70-74	93.8	95.0	103.7
75-79	90.8	91.8	95.5
80-84	70.4	71.9	70.0
85+	35.1	34.2	53.3

SEER 17 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

Rates are per 100,000 and are age-adjusted to the IARC world standard population. Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.14
Cancer of the Female Breast (Invasive)

5-Year Relative and Period Survival (Percent) by Race, Diagnosis Year, Stage and Age

	All	Races, F	emales	W	hite Femai	les	В	lack Femal	.es
	All	<50	50+	All	<50	50+	All	<50	50+
5-Year Relative Surviva	1 (Dergent)								
Year of Diagnosis:	i (Percent)								
1960-1963ª		_	_	63	_	_	46	_	_
1970-1903 1970-1973 ^a	_	_	_ _	68	_	_	51	_	_
1975-1973 1975-1977 ^b	75.1	76.7	74.6	75.9	77.9	75.2	62.2	62.4	62.1
1975-1977 1978-1980 ^b	74.6	76.7 75.6	74.6	75.9 75.3	76.3	75.2 75.0	63.4	67.2	61.5
1981-1983 ^b	76.4	77.5	76.0	77.3	78.7	77.0	63.8	65.4	63.0
1984-1986 ^b	79.2	77.9	79.6	80.2	79.7	80.4	65.2	64.0	65.9
1987-1989 ^b	84.2	81.5	85.2	85.3	82.9	86.1	71.3	69.6	72.3
1990-1992 ^b	85.4	83.4	86.1	86.6	85.2	87.1	71.7	70.4	72.5
1993-1995 ^b	86.5	84.3	87.3	87.8	86.3	88.4	72.7	70.2	74.1
1996-2000 ^b	89.1	87.4	89.7	90.2	89.1	90.5	77.5	75.7	78.6
2001-2007 ^b	90.0 ^e	89.2 ^e	90.3 ^e	91.4 ^e	91.0 ^e	91.6 ^e	77.4 ^e	76.8 ^e	77.7 ^e
5-Year Period Survival	(Dorgont)cd								
2007	89.2	88.8	89.4	00 5	90.3	90.5	77.7	77.4	77 0
2007	89.2	88.8	89.4	90.5	90.3	90.5	//./	//.4	77.9
Stage Distribution (%) All Stages	2001-2007 ^c								
Number of cases	292,714	73,750	218,964	241,734	56,867	184,867	26,966	8,735	18,231
	292,714 100%	100%	100%	241,734 100%	100%	100%	20,966	100%	18,231
Percent									
Localized	60	53	63	61	54	63	51	47	53
Regional	33	41	30	32	41	30	38	44	35
Distant	5	4	5	5	4	5	8	7	9
Unstaged	2	1	2	2	1	2	2	2	3
5-Year Relative Surviva Age at Diagnosis:	l (Percent), 2	001-2007°							
Ages <45	86.9		_	88.3			76.0		
Ages 45-54	89.8	_	_ _	91.2	_	_	78.2	_	_
Ages 55-64	90.1		_	91.2		_	78.9		_
Ages 55-64 Ages 65-74	90.1	_	=	91.5	=	_	80.0	_	=
	90.5 87.2	_	_	88.9	_	-	68.8	_	_
Ages 75+		_			_			_	_
Ages <65	89.2	_	-	90.6	-	_	77.8	_	_
Ages 65+	88.9	_	-	90.2	-	_	75.2	-	-
Stage:									
All Stages	89.1	88.4	89.3	90.4	89.9	90.5	77.0	77.0	77.0
Localized	98.6	96.2	99.3	99.3	96.7	100.0	92.6	91.3	93.1
Regional	83.8	84.6	83.5	85.2	86.4	84.7	72.1	72.8	71.6
Distant	23.4	30.8	21.5	24.9	34.9	22.5	15.0	16.0	14.5
Unstaged	52.4	71.9	47.5	52.0	74.9	47.0	45.2	50.9	43.5
In Situ ^h	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	100.0

Based on End Results data from a series of hospital registries and one population-based registry.

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

Based on follow-up of patients into 2008.

SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Based on follow-up of patients into 2008.

Period survival provides a 2007 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2005-2007: 0-1 year survival),

^{(2004-2006: 1-2} year survival), (2003-2005: 2-3 year survival), (2002-2004: 3-4 year survival), (2001-2003: 4-5 years survival).

The difference between 1975-1977 and 2001-2007 is statistically significant (p<.05).

The standard error is between 5 and 10 percentage points.

The standard error is greater than 10 percentage points. In situ cases are not included in the All Stages group.

Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 4.15 Cancer of the Female Breast (Invasive)

SEER^a Relative Survival (Percent) By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
-	1010	1701	1707	1000	1001	1000	1000	1001	1000	1000	1001	1000	1000	2000	2001	2002	2003	2001	2005	2000	2007
Survival T	ime																				
1-year	94.7	95.4	96.6	97.0	97.3	97.4	97.2	97.5	97.3	97.1	97.5	97.7	97.6	97.7	97.5	97.7	98.0	97.9	97.9	98.0	97.9
2-year	89.0	90.3	92.6	93.4	93.8	94.4	94.1	94.3	94.1	93.9	94.5	95.1	95.3	95.6	95.3	95.7	95.7	95.8	95.8	95.7	
3-year	83.4	84.8	88.5	89.8	90.2	91.1	91.0	91.1	91.5	91.1	92.2	93.0	93.3	93.7	93.0	93.7	93.4	93.4	93.9		
4-year	78.7	80.4	85.3	87.0	87.7	88.2	88.3	88.7	88.9	89.0	90.1	91.1	91.4	91.8	91.1	91.9	91.7	91.4			
5-year	74.8	76.6	82.4	84.8	85.4	86.0	85.9	86.7	86.9	86.8	88.5	89.6	89.7	90.4	89.6	90.4	89.9				
6-year	71.6	73.6	80.0	82.7	83.5	84.2	84.0	85.1	85.5	85.1	87.2	88.5	88.1	89.2	88.4	88.9					
7-year	68.8	70.8	78.0	80.8	81.7	82.6	82.3	83.6	83.9	84.0	86.1	87.2	87.1	87.9	87.0						
8-year	66.6	68.5	76.5	79.5	80.2	81.7	80.7	82.9	82.7	82.6	85.2	86.0	86.0	86.6							
9-year	64.4	66.5	74.8	78.2	78.9	80.8	79.7	81.8	81.5	81.6	84.0	84.8	85.1								
10-year	62.6	64.6	73.5	77.2	77.8	79.8	78.7	80.6	80.7	80.5	82.9	83.6									
11-year	61.0	62.8	72.2	76.1	77.2	78.8	77.4	79.2	79.6	79.6	82.0										
12-year	59.4	61.6	71.0	75.3	76.1	77.8	76.8	78.1	78.6	78.7											
13-year	58.2	60.5	70.0	74.3	75.2	76.8	76.0	77.4	77.6												
14-year	57.2	59.2	69.1	73.2	74.5	76.1	75.0	76.5													
15-year	56.1	58.4	68.2	72.0	73.8	75.1	74.1														
16-year	55.2	57.3	67.4	70.8	73.1	74.3															
17-year	54.3	56.3	66.6	69.9	72.0																
18-year	53.5	55.6	65.8	69.0																	
19-year	52.6	55.0	65.2																		
20-year	51.9	54.2																			

^a Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

SEER^a Relative Survival (Percent) By Year of Diagnosis

All Races, Females

Year of Diagnosis

		1980-																			
	1979	1984	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Survival Ti	ime																				
1-year	96.8	97.6	98.0	97.6	98.5	98.4	98.0	98.5	98.0	97.8	98.1	98.4	98.7	98.5	98.4	98.6	98.9	98.5	98.9	98.9	99.0
2-year	91.0	91.5	92.8	93.1	94.0	94.6	94.3	93.6	93.8	93.8	94.8	95.2	95.2	95.7	94.9	95.9	96.1	96.0	96.0	96.7	
3-year	84.7	85.7	87.5	88.5	90.2	90.8	90.3	89.4	90.0	90.7	91.8	92.2	92.3	93.1	91.6	93.4	93.6	93.2	93.7		
4-year	80.1	81.0	83.5	85.0	86.9	86.5	87.2	86.3	86.7	88.2	88.8	89.5	90.0	90.6	89.3	90.7	91.8	91.2			
5-year	76.2	77.2	80.3	82.4	84.0	83.9	84.8	84.1	84.2	85.5	86.8	87.4	88.1	89.0	87.2	88.7	89.7				
6-year	73.4	74.2	77.9	80.2	81.8	81.7	83.0	82.0	82.3	83.3	84.8	85.5	86.1	87.4	85.2	86.7					
7-year	70.9	71.6	75.8	78.6	79.6	80.3	81.3	80.3	80.3	81.7	83.2	83.7	84.8	85.8	83.4						
8-year	69.0	69.5	74.2	76.6	78.2	78.6	79.7	79.0	78.7	80.0	81.4	82.4	83.5	83.8							
9-year	67.1	67.7	72.6	75.5	77.3	77.6	78.5	77.6	77.6	78.9	80.4	80.7	82.4								
10-year	65.6	66.3	71.4	74.4	76.3	76.8	77.3	76.5	76.3	77.6	79.1	79.7									
11-year	64.2	65.0	70.4	73.4	75.3	75.7	76.6	75.6	75.4	76.5	78.1										
12-year	62.8	64.0	69.3	72.5	73.9	75.1	76.0	74.2	74.5	75.8											
13-year	61.7	63.0	68.3	71.4	73.2	74.0	75.3	73.4	73.6												
14-year	61.0	61.8	67.6	70.8	72.4	73.4	74.2	72.6													
15-year	60.2	61.1	66.8	70.1	71.8	72.6	73.3														
16-year	59.5	60.3	66.1	69.7	70.7	72.1															
17-year	58.9	59.7	65.5	69.0	70.1																
18-year	58.3	59.1	64.9	68.6																	
19-year	57.7	58.6	64.3																		
20-year	57.0	58.0																			

Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 4.17 Cancer of the Female Breast (Ages 50+, Invasive)

SEER^a Relative Survival (Percent) By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975-	1980-	1985-																		
	1979	1984	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Survival T	ime																				
1-year	94.0	94.8	96.1	96.8	96.9	97.1	96.9	97.2	97.1	96.9	97.4	97.4	97.3	97.4	97.3	97.4	97.6	97.7	97.6	97.6	97.5
2-year	88.3	89.9	92.5	93.5	93.8	94.3	94.0	94.6	94.3	93.9	94.5	95.0	95.4	95.5	95.4	95.6	95.5	95.7	95.8	95.4	
3-year	83.0	84.6	88.9	90.3	90.2	91.2	91.2	91.7	92.0	91.2	92.3	93.3	93.6	93.9	93.4	93.8	93.4	93.4	94.0		
4-year	78.2	80.2	85.9	87.6	88.0	88.9	88.6	89.5	89.8	89.4	90.5	91.8	91.9	92.3	91.8	92.3	91.6	91.6			
5-year	74.3	76.4	83.2	85.6	85.9	86.7	86.4	87.7	87.9	87.3	89.2	90.5	90.3	90.9	90.4	91.0	90.0				
6-year	71.1	73.4	80.8	83.6	84.1	85.1	84.3	86.2	86.7	85.8	88.0	89.6	88.9	89.8	89.6	89.7					
7-year	68.1	70.5	78.8	81.6	82.6	83.5	82.6	84.8	85.3	84.9	87.1	88.6	87.9	88.7	88.3						
8-year	65.7	68.2	77.3	80.6	81.0	82.9	81.1	84.4	84.3	83.6	86.6	87.3	86.9	87.7							
9-year	63.5	66.1	75.5	79.2	79.5	82.0	80.2	83.3	83.0	82.6	85.3	86.3	86.1								
10-year	61.6	64.0	74.2	78.2	78.4	81.0	79.3	82.1	82.4	81.6	84.3	85.1									
11-year	59.7	62.0	72.8	77.2	77.9	80.0	77.7	80.5	81.2	80.8	83.5										
12-year	58.1	60.7	71.5	76.3	76.9	78.8	77.1	79.5	80.2	79.8											
13-year	56.9	59.6	70.5	75.4	76.1	77.8	76.2	78.8	79.1												
14-year	55.8	58.2	69.6	74.1	75.3	77.1	75.2	77.9													
15-year	54.5	57.3	68.6	72.6	74.7	76.0	74.4														
16-year	53.5	56.1	67.7	71.0	74.1	75.0															
17-year	52.3	55.0	66.8	69.9	72.8																
18-year	51.4	54.1	66.0	68.7																	
19-year	50.4	53.4	65.4																		
20-year	49.6	52.5																			

^a Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 4.19 Cancer of the Female Breast (Invasive)

SEER Incidence and U.S. Mortality Age-Adjusted Rates and Trends^a By Race/Ethnicity

SEER Incidence	SEER 17 Areas ^b Rate 2004-2008 Rate per 100,000 persons	SEER 13 Areas ^b Trend 1999-2008 ^c AAPC (%)	SEER 9 Areas ^b Trend 1999-2008 ^d AAPC (%)
	Females	Females	Females
RACE/ETHNICITY			
All Races	124.0	-1.1*	-1.2*
White	127.3	-1.5*	-1.5*
White Hispanic ^e	79.7	-0.4*	_
White Non-Hispanic ^e	135.9	-1.3*	-
Black	119.9	0.0	0.0
Asian/Pacific Islander	93.7	0.7	-
Amer Ind/Alaska Nat ^f	77.9	-0.3	-
Hispanic ^e	78.1	-0.3	-
U.S. Mortality ^g			
<u></u>	Rate 2004-2008	Trend 1999-2008h	
	Rate per 100,000 persons	AAPC (%)	
	Females	Females	

RACE/ETHNICITY

All Races

White White Hispanice White Non-Hispanice

Black

Asian/Pacific Islander

Amer Ind/Alaska Nat Total U.S. CHSDA Counties Non-CHSDA Counties

Hispanic^e

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. Statistic not shown. Rate based on less than 16 cases for the time interval.

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

- The 1999-2008 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 1992-2008.
- d The 1999-2008 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2008.
- Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The 2004-2008 Hispanic and Non-Hispanic death rates exclude deaths from the District of Columbia, New Hampshire, and North Dakota. The 1999-2008 Hispanic and Non-Hispanic mortality trends exclude deaths from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North
- Dakota, Oklahoma and Vermont. Incidence data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- US Mortality Files, National Center for Health Statistics, CDC.
- The 1999-2008 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2008.
 - The APC is significantly different from zero (p<.05).

Table 4.20 Cancer of the Female Breast (In Situ)

SEER Incidence Age-Adjusted Rates and Trends^a By Race/Ethnicity

SEER Incidence	SEER 17 Areas ^b Rate 2004-2008 Rate per 100,000 persons	SEER 13 Areas ^b Trend 1999-2008 ^c AAPC (%)	SEER 9 Areas ^b Trend 1999–2008 ^d AAPC (%)
	Females	Females	Females
RACE/ETHNICITY			
All Races	30.9	1.2*	0.9*
White	31.4	0.5	0.6
White Hispanic ^e	17.1	2.0*	-
White Non-Hispanic ^e	34.2	0.7	-
Black	28.8	2.0*	2.0
Asian/Pacific Islander	28.3	3.8	-
Amer Ind/Alaska Nat ^f	13.3	1.6	-
Hispanic ^e	16.9	2.1*	-

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. Statistic not shown. Rate based on less than 16 cases for the time interval.

The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

The 1999-2008 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 1992-2008.

d The 1999-2008 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2008.

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry

Incidence data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

The APC is significantly different from zero (p<.05).

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

b The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

Table 4.21 Cancer of the Female Breast (Invasive)

Age-Adjusted SEER Incidence Rates^a By Registry, Race and Age

		All Races			Whites			Blacks	
	All Ages	Ages <50	Ages 50+	All Ages	Ages <50	Ages 50+	All Ages	Ages <50	Ages 50+
SEER Incidence Rates ^a , 2004-2008									
Atlanta & Rural Georgia	122.72	44.27	328.16	124.80	43.61	337.40	123.51	46.14	326.10
Atlanta	123.04	44.20	329.50	124.65	43.42	337.36	125.23	46.29	331.93
Rural Georgia	118.88	47.49	305.81	128.10	49.87	332.96	101.08	44.06	250.40
California	122.45	41.08	335.51	127.12	41.06	352.48	121.02	42.17	327.51
Greater Bay Area	128.27	44.99	346.34	138.24	45.26	381.73	121.34	45.87	318.95
San Francisco-Oakland	130.73	46.71	350.75	141.01	46.96	387.27	126.11	47.00	333.28
San Jose-Monterey	123.54	41.82	337.53	133.37	42.32	371.79	83.27	38.47	200.60
Los Angeles	117.17	40.22	318.67	120.43	39.17	333.20	122.41	44.07	327.53
Greater California	122.88	40.11	339.62	126.60	40.67	351.62	120.46	38.59	334.84
Connecticut	136.15	49.24	363.75	138.55	50.48	369.17	112.82	40.00	303.51
Detroit	125.22	44.49	336.63	126.33	45.03	339.20	122.82	43.24	331.20
Hawaii	122.38	47.72	317.89	134.99	46.56	366.55	78.92	=	222.33
Iowa	122.51	43.13	330.37	123.09	43.27	332.10	110.26	40.06	294.11
Kentucky	120.48	42.00	325.99	119.70	41.18	325.31	128.30	45.28	345.69
Louisiana	118.21	41.81	318.29	117.43	39.64	321.14	122.33	47.44	318.44
New Jersey	129.71	47.54	344.86	133.94	49.08	356.16	111.92	41.32	296.81
New Mexico	110.51	38.79	298.32	115.17	40.48	310.75	73.20	34.52	174.50
Seattle-Puget Sound	137.10	44.40	379.84	141.35	44.31	395.43	123.19	45.35	327.04
Utah	109.50	35.18	304.12	111.17	35.77	308.60	75.65	=	234.06
9 SEER Areas ^b	126.61	44.34	342.02	130.01	44.42	354.15	121.86	44.28	325.01
11 SEER Areas ^b	124.29	43.21	336.62	128.13	43.08	350.83	121.53	44.17	324.12
13 SEER Areas ^b	124.29	43.23	336.54	128.13	43.09	350.80	121.21	44.15	322.99
17 SEER Areas ^b	124.04	42.83	336.70	127.34	42.90	348.46	119.90	43.52	319.91

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130)
The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.
The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.
The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey. Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.23 Cancer of the Female Breast (In Situ)

Age-Adjusted SEER Incidence Rates^a By Registry, Race and Age

		All Races			Whites			Blacks	
	All Ages	Ages <50	Ages 50+	All Ages	Ages <50	Ages 50+	All Ages	Ages <50	Ages 50+
SEER Incidence Rates ^a , 2004-2008									
Atlanta & Rural Georgia	33.25	12.25	88.22	35.42	13.47	92.90	31.90	11.02	86.59
Atlanta	33.95	12.53	90.04	35.99	13.67	94.43	33.13	11.44	89.93
Rural Georgia	19.55	_	60.17	24.66	_	69.33	12.22	_	44.20
California	28.42	10.23	76.03	28.69	10.08	77.41	26.73	7.78	76.35
Greater Bay Area	33.17	13.07	85.81	33.73	12.98	88.06	26.86	6.77	79.45
San Francisco-Oakland	34.15	13.48	88.28	35.32	13.94	91.30	26.95	6.32	80.98
San Jose-Monterey	31.27	12.33	80.87	30.97	11.35	82.32	24.65	_	63.82
Los Angeles	25.67	9.17	68.88	25.79	8.93	69.94	26.42	7.79	75.22
Greater California	28.05	9.76	75.94	28.43	9.76	77.30	27.00	8.24	76.10
Connecticut	45.62	19.40	114.29	46.17	19.87	115.05	40.99	13.87	112.02
Detroit	36.30	14.41	93.62	36.33	15.23	91.58	36.40	11.74	100.98
Hawaii	37.02	14.87	95.02	31.76	12.55	82.08	-	=	=
Iowa	28.66	10.63	75.88	28.57	10.61	75.61	22.09	_	65.38
Kentucky	24.20	8.91	64.22	23.92	8.85	63.37	27.36	9.49	74.14
Louisiana	23.58	7.39	65.96	24.34	7.80	67.64	22.68	6.81	64.25
New Jersey	38.42	17.37	93.53	39.96	18.60	95.91	27.86	8.91	77.47
New Mexico	20.02	7.74	52.17	21.49	8.68	55.05	-	=	=
Seattle-Puget Sound	37.09	14.28	96.81	38.18	14.66	99.77	27.25	7.48	79.01
Utah	22.72	7.99	61.28	23.20	8.13	62.66	-	_	_
9 SEER Areas ^b	34.19	13.42	88.56	34.55	13.77	88.97	33.43	10.73	92.86
11 SEER Areas ^b	32.08	12.35	83.76	32.46	12.52	84.70	31.62	10.08	88.02
13 SEER Areas ^b	32.04	12.32	83.66	32.44	12.51	84.65	31.35	9.96	87.35
17 SEER Areas ^b	30.93	11.87	80.85	31.36	12.08	81.84	28.84	9.13	80.43

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130)
The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.
The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.
The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.
The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 4.25 Cancer of the Breast (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2008 By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since	Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	25 to <30	0 to <18 ^e	0 to <33 ^e	>=33 ^g	Completeh
<u>Race</u> All Races ^b	<u>Sex</u> Both Sexes Males Females	800,302 5,477 794,825	665,332 3,417 661,915	449,100 1,917 447,183	306,246 1,062 305,184	170,735 738 169,997	97,423 394 97,029	2,135,402 11,712 2,123,690	2,572,603 13,420 2,559,183	73,018 196 72,822	2,645,621 13,616 2,632,005
White ^b	Both Sexes	691,124	589,133	401,493	278,454	155,119	88,902	1,874,734	2,273,204	64,753	2,337,957
	Males	4,680	2,929	1,712	949	676	368	10,063	11,653	9 ⁱ	11,662
	Females	686,444	586,204	399,781	277,505	154,443	88,534	1,864,671	2,261,551	64,744	2,326,295
Black ^b	Both Sexes	74,195	49,574	32,572	19,149	11,047	6,010	173,643	200,823	+	+
	Males	630	354	130	110	46	26	1,262	1,369	+	+
	Females	73,565	49,220	32,442	19,039	11,001	5,984	172,381	199,454	5,158	204,612
Asian/	Both Sexes	27,344	20,106	11,917	+	+	+	64,172	+	+	+
Pacific	Males	119	69	50	+	+	+	252	+	+	+
Islander ^c	Females	27,225	20,037	11,867	+	+	+	63,920	+	+	+
Hispanic ^d	Both Sexes	44,599	30,746	26,172	+	+	+	101,518	+	+	+
	Males	231	95	46	+	+	+	372	+	+	+
	Females	44,368	30,651	26,126	+	+	+	101,146	+	+	+

Estimated prevalence percent on January 1, 2008, of the SEER 11 population diagnosed in the previous 18 years By Age at Prevalence, Race/Ethnicity and Sex

						Age S	pecific (C	rude)				Age-Adjustedf
Age at Prev	alence	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	+08	All Ages
Race All Races ^c	Sex Both Sexes Males Females	0.5908% 0.0066% 1.1652%	- - -	0.0002% - 0.0004%	0.0055% - 0.0112%	0.0835% 0.0004% 0.1691%	0.4464% 0.0027% 0.8917%	1.1167% 0.0087% 2.1769%	1.9788% 0.0244% 3.7494%	2.4655% 0.0430% 4.3758%	2.8427% 0.0569% 4.3846%	0.5895% 0.0077% 1.0815%
White ^c	Both Sexes	0.6442%	-	0.0001%	0.0050%	0.0834%	0.4462%	1.1456%	2.0863%	2.6395%	3.0204%	0.6163%
	Males	0.0071%	-	-	-	0.0003%	0.0025%	0.0082%	0.0240%	0.0454%	0.0610%	0.0078%
	Females	1.2832%	-	0.0003%	0.0103%	0.1726%	0.9079%	2.2718%	4.0083%	4.7337%	4.6515%	1.1434%
Black ^c	Both Sexes	0.4146%	-	-	0.0084%	0.0911%	0.4484%	1.0108%	1.7045%	1.9968%	2.4437%	0.5201%
	Males	0.0065%	-	-	-	-	0.0033%	0.0148%	0.0441%	0.0408%	0.0565%	0.0098%
	Females	0.7850%	-	-	0.0166%	0.1705%	0.8375%	1.8396%	2.9829%	3.3373%	3.5544%	0.8934%
Asian/	Both Sexes	0.4480%	-	-	0.0060%	0.0777%	0.4391%	1.0148%	1.4717%	1.6779%	1.6701%	0.4541%
Pacific	Males	0.0038%	-	-	-	-	0.0019%	0.0058%	0.0120%	0.0273%	0.0262%	0.0045%
Islander ^c	Females	0.8642%	-	-	0.0115%	0.1506%	0.8395%	1.8924%	2.7140%	2.9119%	2.7033%	0.8220%
Hispanic ^d	Both Sexes	0.2250%	-	-	0.0037%	0.0551%	0.2831%	0.7523%	1.3183%	1.6110%	1.7088%	0.3862%
	Males	0.0016%	-	-	-	-	0.0013%	0.0044%	0.0085%	0.0241%	0.0177%	0.0034%
	Females	0.4622%	-	-	0.0080%	0.1192%	0.5894%	1.4716%	2.4459%	2.7887%	2.6942%	0.7086%

US 2008 cancer prevalence counts are based on 2008 cancer prevalence proportions from the SEER registries and 1/1/2008 US population estimates based on the average of 2007 and 2008 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.
Statistics based on (b) SEER 9 Areas (c) SEER 11 Areas and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and

Not available.

bcd Rural Georgia.

Maximum limited-duration prevalence: 33 years for 1975-2008 SEER 9 data; 18 years for 1990-2008 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups. (g) Cases diagnosed more than 33 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <33 and >=33. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry. f ghi

Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

Table 4.26

Cancer of the Female Breast (Invasive)

Percent Distribution and Counts by Histology among Histologically Confirmed Cases, 2004-2008

Females by Race

Asian/Pacific American Indian/

							Asian/	Pacific	America:	n Indian/		
	All	Races	Whi	ite	Bl	ack	Isl	ander	Alaska	<u>Native^b</u>	Hisp	oanic ^c
<u>Histology^a</u>	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Carcinoma	250,124	99.4%	205,618	99.4%	23,187	99.3%	18,041	99.3%	959	99.4%	20,794	99.1%
Epidermoid carcinoma ^d (8051-8131)	158	0.1%	122	0.1%	24	0.1%	_	_	_	-	_	-
Adenocarcinoma ^e	244,659	97.2%	201,440	97.4%	22,335	95.7%	17,705	97.5%	935	96.9%	20,245	96.5%
Adenocarcinoma, NOS (8140)	2,268	0.9%	1,828	0.9%	255	1.1%	144	0.8%	-	-	210	1.0%
Infiltrating duct carcinoma (8500)	177,564	70.6%	144,325	69.8%	17,160	73.5%	13,735	75.6%	709	73.5%	15,083	71.9%
Lobular carcinoma, NOS (8520)	20,768	8.3%	18,270	8.8%	1,395	6.0%	866	4.8%	66	6.8%	1,362	6.5%
<pre>Inflammatory adenocarcinoma (8530)</pre>	1,485	0.6%	1,168	0.6%	235	1.0%	65	0.4%	-	-	187	0.9%
Infiltrating duct mixed and infiltrating lobular mixed (8522-8524)	27,483	10.9%	23,587	11.4%	1,924	8.2%	1,638	9.0%	98	10.2%	2,195	10.5%
Mucinous adenocarcinoma (8480,8482)	5,911	2.3%	4,735	2.3%	502	2.2%	588	3.2%	20	2.1%	438	2.1%
Mucin-producing adenocarcinoma (8481)	104	0.0%	84	0.0%	_	-	_	_	_	-	-	-
Tubular adenocarcinoma (8211)	2,808	1.1%	2,552	1.2%	123	0.5%	100	0.6%	_	-	151	0.7%
Papillary adenocarcinoma (8050,8260,8503,8504)	1,448	0.6%	1,036	0.5%	225	1.0%	164	0.9%	-	-	153	0.7%
Paget disease (8540-8543)	1,434	0.6%	1,165	0.6%	138	0.6%	113	0.6%	-	-	152	0.7%
Other adenocarcinomas ^f	3,386	1.3%	2,690	1.3%	364	1.6%	287	1.6%	-	-	308	1.5%
Other specific carcinomas ^g	2,459	1.0%	1,822	0.9%	457	2.0%	153	0.8%	_	_	270	1.3%
Medullary adenocarcinoma (8510-8513)	1,148	0.5%	793	0.4%	262	1.1%	78	0.4%	-	_	153	0.7%
Other ^h	1,311	0.5%	1,029	0.5%	195	0.8%	75	0.4%	-	-	117	0.6%
Unspecified, Carcinoma, NOS (8010-8011,8020-8022)	2,848	1.1%	2,234	1.1%	371	1.6%	175	1.0%	-	-	265	1.3%

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

Percents may not sum to 100 due to rounding.

- ^a Excludes Kaposi Sarcoma, mesothelioma, lymphomas, leukemias, myelomas, lymphoreticular, and immunoproliferative diseases.
- Estimates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.
- Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.
- d Epidermoid carcinoma includes squamous, basal, and transitional cell carcinomas.
- Adenocarcinoma includes histologies 8050, 8140-8147, 8160-8162, 8180-8221, 8250-8507, 8514, 8520-8551, 8560, 8570-8574, 8576, 8940-8941.
- f Other adenocarcinomas include histologies 8141-8147, 8160-8162, 8180-8210, 8212-8221, 8250-8259, 8261-8479, 8483-8499, 8501-8502, 8505-8507, 8514, 8521, 8525-8529, 8531-8539, 8544-8551, 8560, 8570-8574, 8576, 8940-8941.
- g Other specific carcinomas include histologies 8012-8015, 8030-8046, 8150-8155, 8170-8175, 8230-8249, 8508, 8510-8513, 8561-8562, 8575, 8580-8671.
- h Other includes histologies 8012-8015, 8030-8046, 8150-8155, 8170-8175, 8230-8249, 8508, 8561-8562, 8575, 8580-8671.
- Statistic not shown due to fewer than 16 cases during the time period.

Table 4.26 - continued

Cancer of the Female Breast (Invasive)

Percent Distribution and Counts by Histology among Histologically Confirmed Cases, 2004-2008 Females by Race

Histology ^a		Races	Wh:	ite	Bl	ack		Pacific ander		n Indian/ <u>Native^b</u>	Hisp	panic ^c
Histology ^a	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Sarcoma and other soft tissue tumors (8680-8713,8800-8921, 9040-9044,9120-9136, 9150-9252,9370-9373, 9540-9582)	306	0.1%	244	0.1%	35	0.1%	22	0.1%	-	-	21	0.1%
Hemangiosarcomas (9120-9126,9170)	160	0.1%	140	0.1%	-	-	-	-	-	-	-	-
Other sarcomas ^d	146	0.1%	104	0.1%	27	0.1%	-	-	-	-	-	-
Other specific types (8720-8790,8930-8936, 8950-9030,9060-9110, 9260-9365,9380-9539)	676	0.3%	520	0.3%	71	0.3%	73	0.4%	-	-	115	0.5%
Phyllodes tumor, malignant (9020)	542	0.2%	418	0.2%	48	0.2%	66	0.4%	-	-	96	0.5%
Other ^e	134	0.1%	102	0.0%	23	0.1%	-	-	-	-	19	0.1%
Unspecified (8000-8005)	483	0.2%	378	0.2%	56	0.2%	25	0.1%	-	-	46	0.2%
Total ^f	251,589	100.0%	206,760	100.0%	23,349	100.0%	18,161	100.0%	965	100.0%	20,976	100.0%

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Percents may not sum to 100 due to rounding.

^a Excludes Kaposi Sarcoma, mesothelioma, lymphomas, leukemias, myelomas, lymphoreticular, and immunoproliferative diseases.

b Estimates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

d Other sarcomas include histologies 8680-8713, 8800-8921, 9040-9044, 9127-9136, 9150-9169, 9171-9252, 9370-9373, 9540-9582.

Other includes histologies 8720-8790, 8930-8936, 8950-9019, 9021-9030, 9060-9110, 9260-9365, 9380-9539.

Total includes carcinoma cases from the previous page.

⁻ Statistic not shown due to fewer than 16 cases during the time period.

Table 4.27

Cancer of the Female Breast(In Situ)

Percent Distribution and Counts by Histology among Histologically Confirmed Cases, 2004-2008

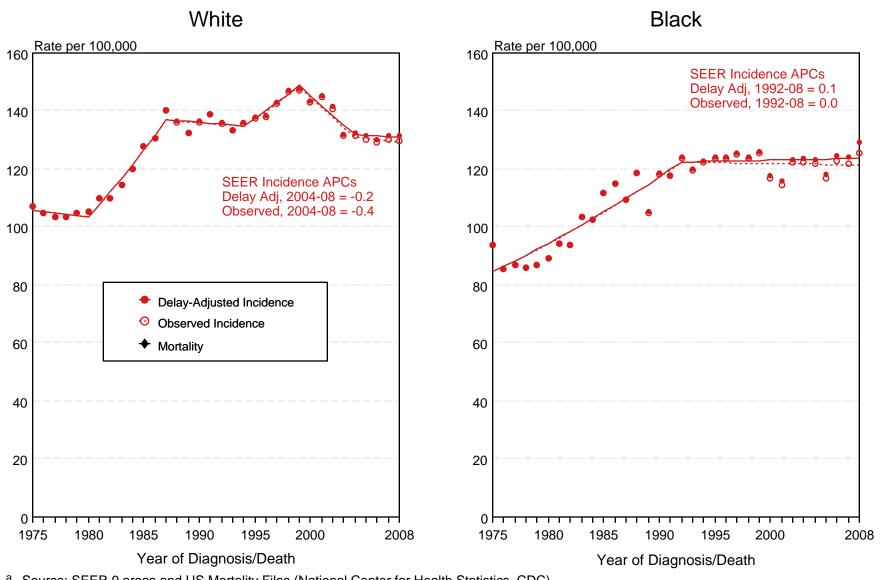
Females by Race

				I CHICATOR R.	, 110.00							
	All	Races						Pacific		n Indian/ Native ^b	Hisp	panic
<u>Histology</u> ^a	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Adenocarcinomad	62,981	99.7%	50,790	99.7%	5,690	99.6%	5,523	99.8%	170	100.0%	4,611	99.7%
Adenocarcinoma in situ, NOS (8140/2)	-	-	-	-	-	_	_	_	_	-	-	-
Ductal carcinoma $in \; sit \hat{u}$	52,948	83.8%	42,266	83.0%	4,925	86.2%	5,023	90.8%	138	81.2%	3,934	85.1%
Cribiform carcinoma in situ (8201/2)	5,151	8.2%	4,069	8.0%	456	8.0%	534	9.7%	20	11.8%	402	8.7%
Ductal carcinoma in situ, solid type(8230/2)	3,550	5.6%	2,962	5.8%	255	4.5%	300	5.4%	_	-	242	5.2%
Ductal carcinoma in situ, NOS (8500/2)	21,147	33.5%	17,147	33.7%	1,925	33.7%	1,775	32.1%	58	34.1%	1,500	32.4%
Comedocarcinoma in situ (8501/2)	4,606	7.3%	3,736	7.3%	424	7.4%	388	7.0%	_	-	365	7.9%
Ductal carcinoma in situ papillary(8503/2)	1,079	1.7%	781	1.5%	154	2.7%	114	2.1%	_	-	89	1.9%
Noninfiltrating intracystic carcinoma(8504/2)	301	0.5%	208	0.4%	42	0.7%	44	0.8%	_	-	21	0.5%
Ductal carcinoma in situ micropapillary(8507/2)	1,607	2.5%	1,292	2.5%	179	3.1%	114	2.1%	_	-	120	2.6%
Intraductal with other types of carcinoma in situ(8523/2	15,305	24.2%	11,904	23.4%	1,478	25.9%	1,734	31.3%	26	15.3%	1,177	25.5%
Lobular carcinoma <i>in situ</i> (8520/2-8521/2, 8524/2)	7,227	11.4%	6,214	12.2%	506	8.9%	301	5.4%	19	11.2%	473	10.2%
Lobular carcinoma in situ, NOS (8520/2)	7,202	11.4%	6,193	12.2%	503	8.8%	300	5.4%	19	11.2%	473	10.2%
Lobular CIS ^f with other CIS ^f (8524/2)	25	0.0%	21	0.0%	-	_	-	-	_	-	-	-
<pre>Intraductal and lobular in situ carcinoma (8522/2)</pre>	2,370	3.8%	1,976	3.9%	212	3.7%	154	2.8%	_	-	175	3.8%
Other adenocarcinomas ^g	422	0.7%	321	0.6%	47	0.8%	44	0.8%	-	-	29	0.6%
Other in situ histologiesh	188	0.3%	150	0.3%	25	0.4%	-	_	-	-	-	-
Total	63,169	100.0%	50,940	100.0%	5,715	100.0%	5,532	100.0%	170	100.0%	4,623	100.0%

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

- Percents may not sum to 100 due to rounding.
- Excludes Kaposi Sarcoma, mesothelioma, lymphomas, leukemias, myelomas, lymphoreticular, and immunoproliferative diseases.
- Estimates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.
- Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.
- d Adenocarcinoma includes histologies 8050,8140-8147,8160-8162,8180-8221,8230,8250-8507,8514,8520-8551,8560,8570-8574,8576,8940-8941.
- Ductal carcinoma includes histologies 8201, 8230, 8401, 8500-8507, 8523.
 - CIS = Carcinoma in situ.
- Other adenocarcinomas include 8050, 8141-8147, 8160-8162, 8180-8200, 8202-8221, 8250-8400, 8402-8499, 8514, 8525-8551, 8560, 8570-8574, 8576, 8940-8941.
- Other histologies include 8000-8049, 8051-8139, 8148-8159, 8163-8179, 8222-8229, 8231-8249, 8508-8513, 8515-8519, 8552-8559, 8561-8569, 8575, 8577-8939, 8942-9989.
- Statistic not shown due to fewer than 16 cases during the time period.

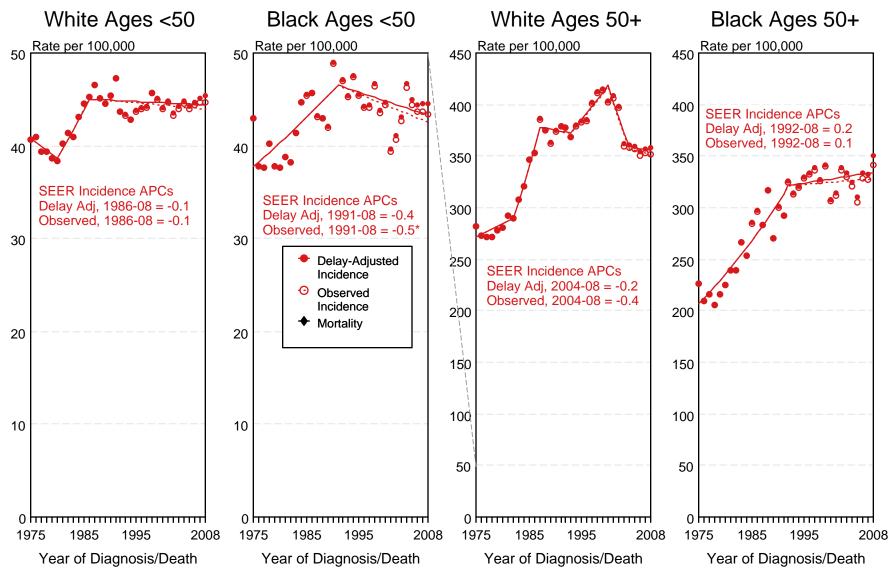
SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates^a Cancer of the Female Breast, by Race



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC).
 Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).
 Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.
 The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

The APC is significantly different from zero (p < 0.05).

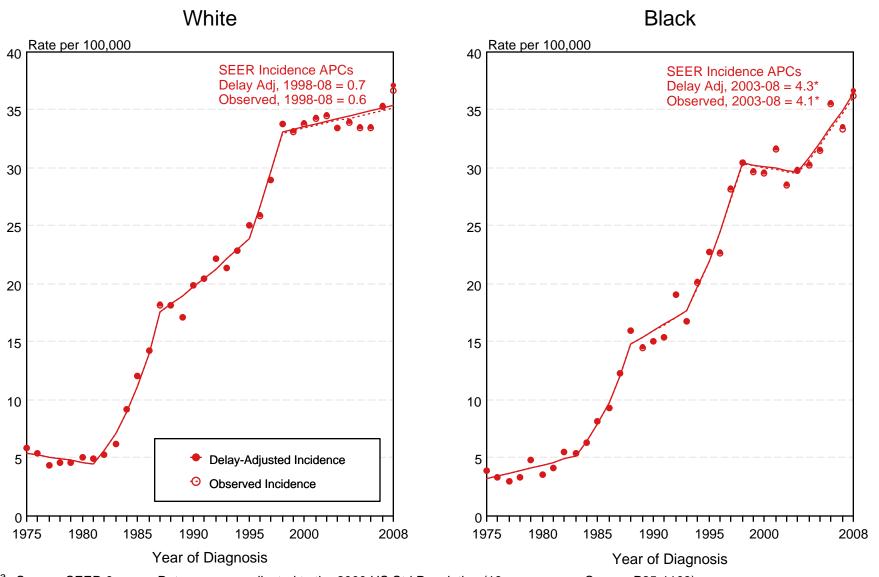
SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates^a Cancer of the Female Breast, by Age and Race



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC).
 Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).
 Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.
 The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

The APC is significantly different from zero (p < 0.05).

SEER Observed Incidence and Delay Adjusted Incidence Rates^a Cancer of the Female Breast (In Situ), by Race

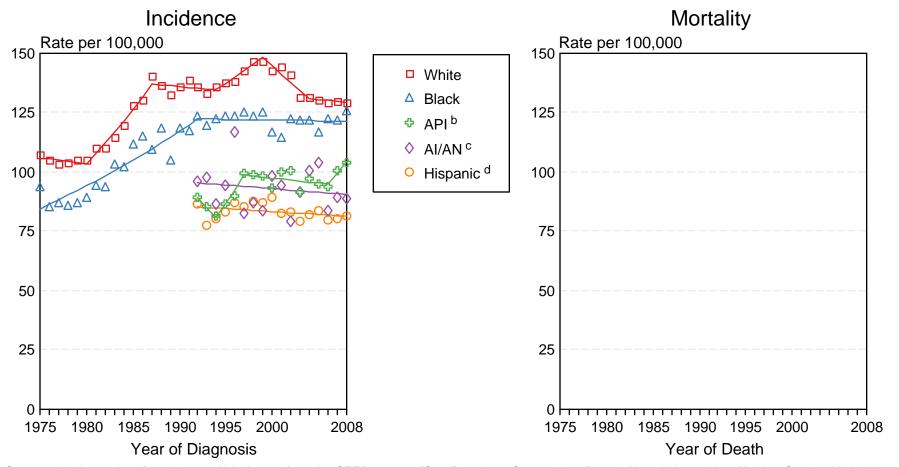


Source: SEER 9 areas. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

The APC is significantly different from zero (p < 0.05).

SEER Incidence and US Death Rates^a Cancer of the Female Breast

Joinpoint Analyses for Whites and Blacks from 1975-2008 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2008



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

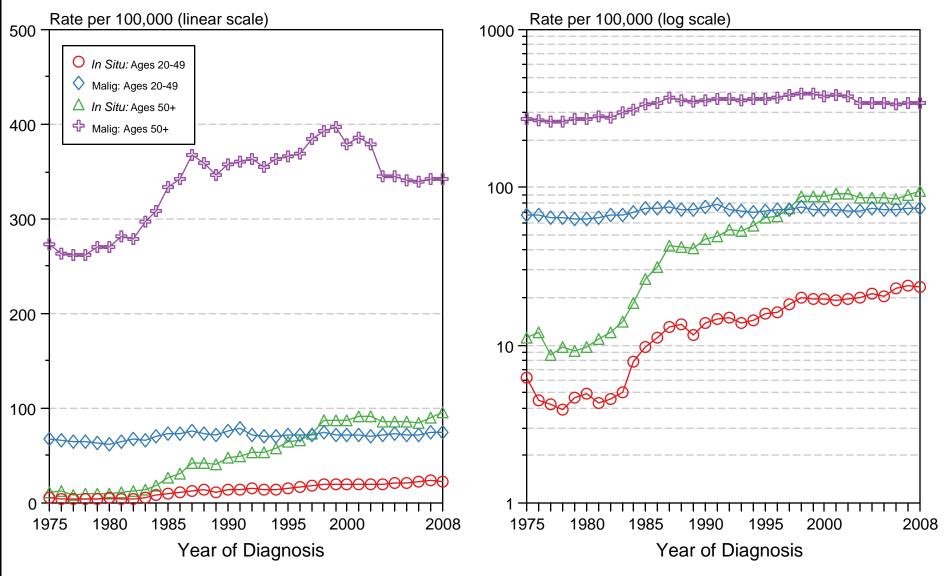
Regression lines are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2008 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2008 allow a maximum of 3 joinpoints.

b API = Asian/Pacific Islander.

c Al/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

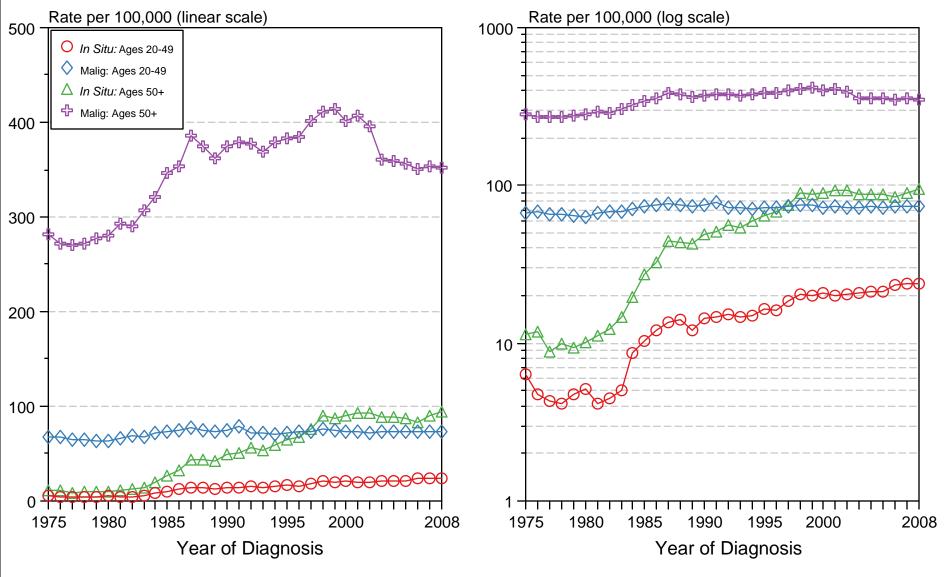
d Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, and Vermont.

Cancer of Female Breast, Incidence Rates, 1975-2008 In Situ vs Malignant, by Age All Races, Females



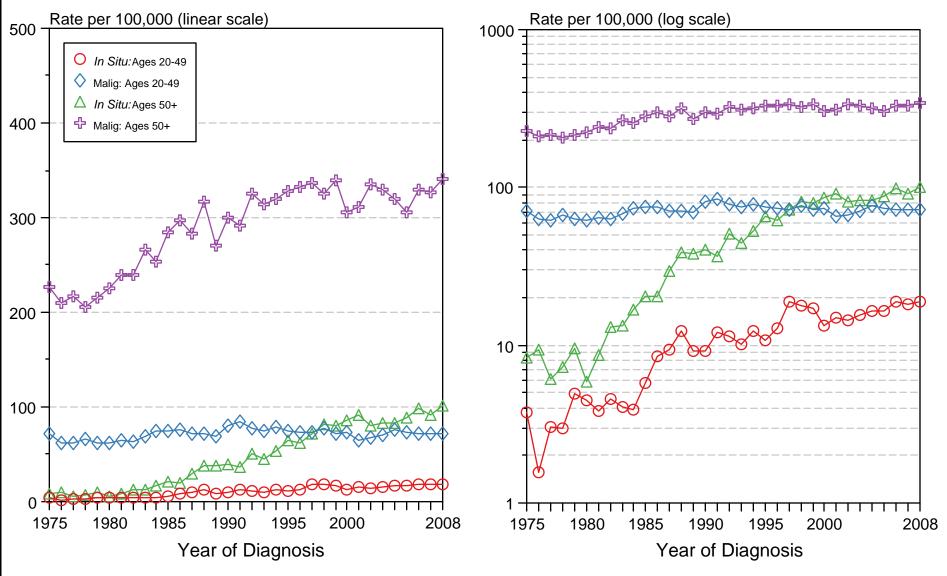
Source: SEER 9 areas. Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Cancer of Female Breast, Incidence Rates, 1975-2008 In Situ vs Malignant, by Age White, Females



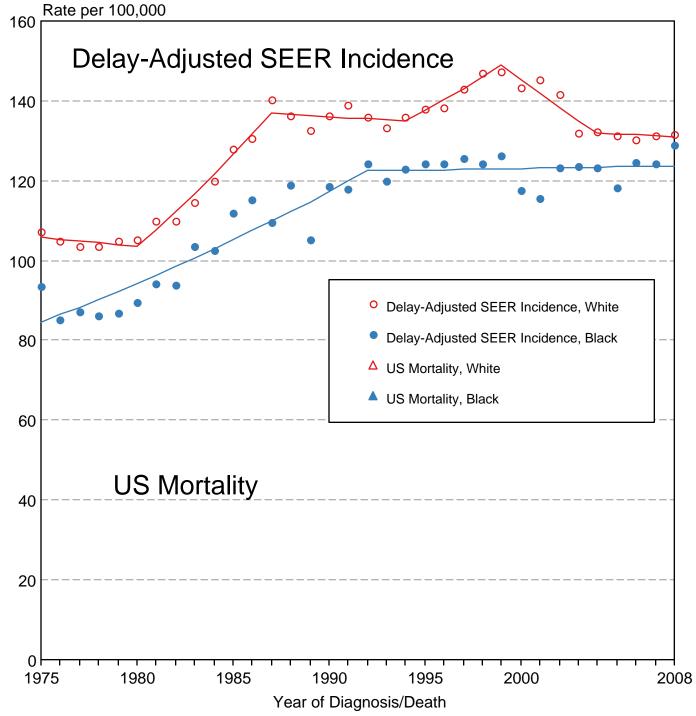
Source: SEER 9 areas. Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Cancer of Female Breast, Incidence Rates, 1975-2008 In Situ vs Malignant, by Age Black, Females



Source: SEER 9 areas. Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Cancer of the Breast Delay-Adjusted SEER Incidence & US Mortality White Females vs Black Females 1975-2008



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.

SEER Observed Incidence and SEER Delay Adjusted Incidence Rates^a SEER 9 Areas Compared to SEER 13 Areas Cancer of the Female Breast, by Race

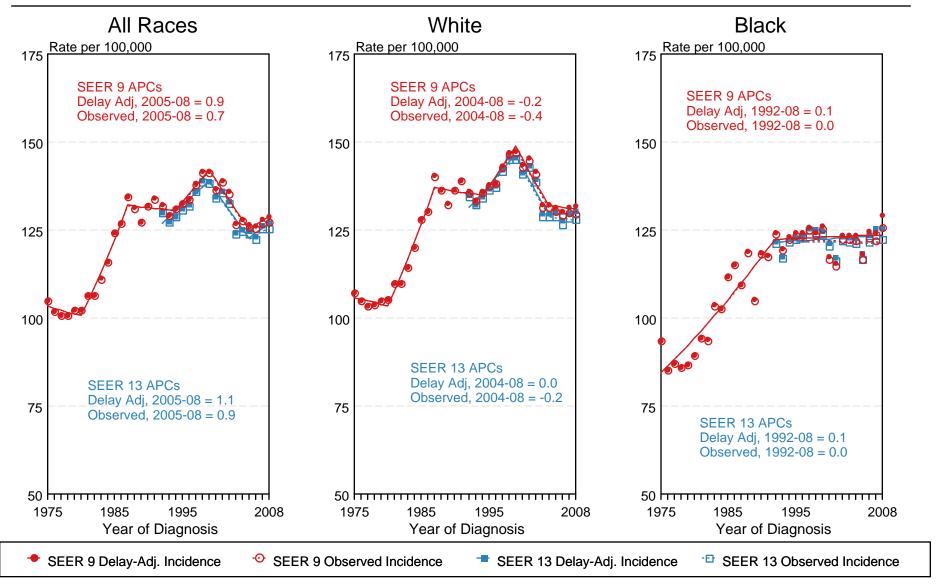


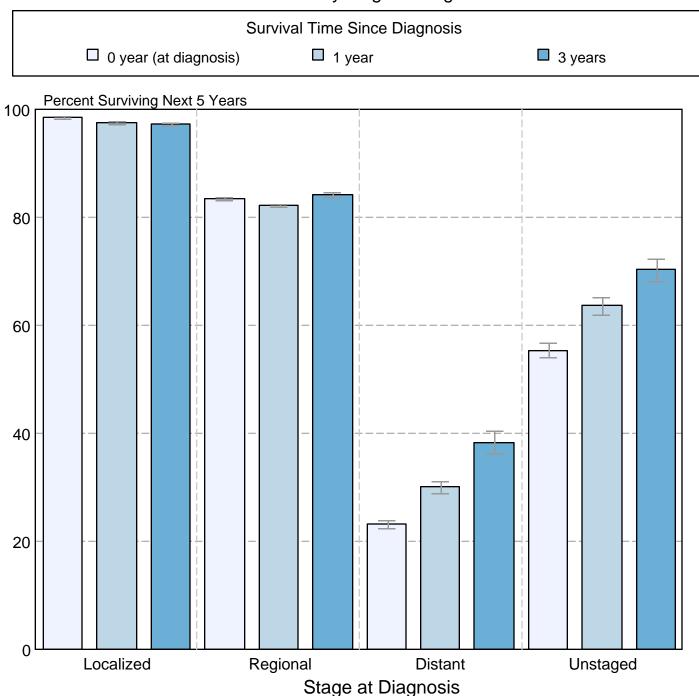
Figure 4.10

Source: SEER 9 areas and SEER 13 areas.
 Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).
 Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.
 The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

^{*} The APC is significantly different from zero (p < 0.05).

Cancer of the Female Breast 5-Year SEER Conditional Relative Survival and 95% Confidence Intervals

Probabilty of surviving the next 5 years given the cohort has already survived 0, 1, or 3 years 1998-2007 by stage at diagnosis



Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2007. The remaining 13 SEER Areas contribute cases for the entire period 1998-2007.

Percent surviving is not shown if based on less than 25 cases.

Confidence intervals are not shown if length of the confidence interval is greater than 5 times the standard error.